

"APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R001343320005-0

YAKOVLEV A.V.; GROMOVA, I.I.; PROTAS, I.R.

A vacuum fluorite spectrograph, photographic material for it and
some data on investigations. Izv. AN SSSR. Ser. fiz. 19 no.1:84-
86 Ja-F '55. (MIRA 8:9)

(Spectrum analysis) (Spectrometer)

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CIA-RDP86-00513R001343320005-0"

PROTAS, I. R.

Use of gold in the photographic process. Sensitization
of photographic emulsions by gold. I. R. Protas. Zhar.
Nauch. i Tekhn. Fot. i Kinoematograf. T. 1, No. 6(1950);
cf. Paclens, C. I. 50, 5534. - Review. 27 references.
J. W. Lowenberg, Jr.

RSS fm
abf

PROTAS, I. R.

~~PROTAS, I.R.~~

The use of gold in the photographic process; photographic chemical
processing with gold salts. Zhur.nauch.i prikl.fot.i kin. 2 no.2:
146-148 Mr-Ap '57. (MLRA 10:5)
(Gold salts) (Photographic chemistry)

Protas TR

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Chemical sensitization of highly dispersed emulsions to various types of radiation? I, R. Protas and Yu. A. Krikau, *Zhur. Nauch. i Prizem. Fiz. i Khimnolog.* 2, 270-8 (1957); cf. Steigmann, *C.A.* 49, 15576i. — The effect of the presence of $\text{NH}_4\text{Au}(\text{CNS})_2$ (I) or Na_2SO_4 (II) in specially prep'd. bromoiodide emulsions on the sensitivity (S) of the latter to light, 5.3-m.e.v. α -particles, and 0.165 m.e.v. β -particles was detd. Data are tabulated and graphed. For an emulsion pH of 8, the presence of I increased S by a factor of 2.0 to light, 1.60 to α -particles, and 4.80 to electrons. In another expt. the presence of II increased S by a factor of 1.65 to light and 1.05 to electrons; with I the corresponding factors were 3.60 and 6.40, resp.; with I and II together they were 9.20 and 6.60, resp. The effectiveness of sensitization by I increases as the S of the original emulsion decreases. The difference in the character of sensitization by I and II with regard to light and electrons is ascribed to the fact that in the presence of I Au is deposited on existing sensitivity centers, while in that of II new subcenters are formed.

J. W. Loweberg, Jr.

Rorif //

PROTAS, I. R., KRAKAU, Yu. A. and SIDORENKOVA, P. T. (BSSR)

"Etude de La Sensibilisation Chimique Des Emulsions Nucleaires."

paper presented at the Second Intl. Colloquium on Corpuscular Photography.
Montreal, 21 Aug - 7 Sep 1958.

Encl: B-3,114,647.

PROTAS, I.R.; LYU-DUN' [Liu-Tun]; POPOVA, L.V.

Kinetics of the chemical ripening of photographic emulsions.

Zhur. nauch. i prikl. fot. i kin. 3 no.2:88-95 Mr-Ap '58.

(MIRA 11:5)

1.Gosudarstvennyy opticheskiy institut im. S.I. Vavilova.
(Photographic emulsions)

SOV/51-4-6-19/24

AUTHOR: Protas, I.R.

TITLE: Photographic Plates for the Vacuum Ultraviolet Spectral Region
(Fotograficheskiye plastinki dlya vakuumnoy ul'trafioletovoy oblasti spektra)

PERIODICAL: Optika i Spektroskopiya, 1958, Vol IV, Nr 6, pp 803-805 (USSR)

ABSTRACT: Gelatin absorbs strongly in the vacuum ultraviolet region. For this reason in the vacuum ultraviolet one uses either photographic plates with specially prepared emulsions of low gelatin content, or the usual emulsions but covered by a fluorescent layer which converts the ultraviolet radiation into visible one. The method of preparation of an emulsion layer with low gelatin content was developed in 1901 by Schumann (Ref 1) and further improved by Lüppo-Cramer (Ref 2) in 1937. The present paper reports a new method of preparation of plates with low gelatin content. The author prepared two solutions of the following compositions: solution I contained 250 ml of H₂O, 12.05 g of KBr, 0.065 g of KI and 3.0 g of photographic gelatin; solution II contained 150 ml of H₂O and 5 g of AgNO₃. Gelatin was swelled in the solution I and then the solution was heated to 45°C. Gelatin was

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Photographic Plates for the Vacuum Ultraviolet Spectral Region SOV/51-4-6-19/24

then melted and the solution II was poured into the solution I. Emulsion thus obtained was held at 45°C for ten minutes. Then the emulsion was cooled without stirring for fifteen minutes and coagulated with a saturated solution of sodium sulphate. The coagulate settled at the bottom of the vessel, the liquid above it was poured away, and the coagulate was washed with water. It was then compressed and had 70 ml of water at 40°C added to it (this water contained 0.2 ml of 10% KBr solution). When the coagulate was melted the emulsion had more water added up to 100 ml. The emulsion was then subjected to chemical sensitization using $\text{NH}_4\text{Au}(\text{CNS})_2$ and sodium thiosulphate and was held for up to two hours at 45°C. The emulsion was then diluted to 550 ml with boiled water cooled to 55°C. The emulsion was then poured out into a crystallizer and kept in the latter for 45 minutes. By this procedure the largest emulsion crystals were deposited and the emulsion was separated from these crystals and filtered. Filtered emulsion was poured out on to glass plates which were covered with a layer of gelatin solution containing chrome alums. About 25 ml of emulsion was poured out on to a 9 x 12 cm plate covered with such a gelatin layer. The emulsion was left on the glass for 4 hours and the excess of it was then poured away and the plates were dried in a

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Photographic Plates for the Vacuum Ultraviolet Spectral Region

vertical position. The dried plates were sensitive even to light contact and had to be treated accordingly. Plates prepared in this way were tested in a vacuum fluorite spectrograph. It was found that the plates produced by the method described here were 4-5 times more sensitive in the vacuum ultraviolet spectral region (at 1402 Å) than the Schumann plates, and they also possessed higher contrast and resolving power. Graduate students of the Leningrad Institute of Motion Picture Engineering, V.L. Abritalin, G.A. Karkeshkina and E.D. Razumova, took part in this work. The author thanks A.V. Yakovleva and I.I. Gromova for help in testing the plates and Yu. A. Krakau for advice. There are 8 references, 3 of which are Soviet, 2 American, 1 German, 1 English and 1 French.

ASSOCIATION: Gosudarstvennyy opticheskiy institut im. S.I. Vavilova (State Optical Institute imeni S.I. Vavilov)

SUBMITTED: December 23, 1957

Card 3/3

PROTAS, I.R., KRAKAU, Yu.A., SIDORENKOVA, P.T.

Role of thiocyanogen ions during the chemical sensitization of
photographic emulsions with gold. Usp.nauch.fot. 7:87-95 '60.
(MIRA 13:7)

(Photographic emulsions) (Photographic chemistry)

S/081/61/000/024/063/066
B149/B102

AUTHORS: Protas, I. R., Pruss, P. Kh.

TITLE: The relationship between the resolution of an emulsion layer
and its thickness

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 24, 1961, 455, abstract
24L527 (Zh. nauchn. i prikl. fotogr. i kinematogr., v. 6,
no. 4, 1961, 294 - 296)

TEXT: An investigation is made of the variation of physical properties
of a photographic layer; its resolution, "sharpness", and the frequency-
contrast characteristics are studied as dependent on the layer thickness
and optical properties. [Abstracter's note: Complete translation.] ✓

Card 1/1

PROTAS, I.R.; KRAKAU, Yu.A.

Coagulation of photographic emulsions with sodium sulfate.
Zhur.nauch.i prikl. fot.i kin. 6 no.6:404-407 N-D '61. (MIRA 15:1)

1. Gosudarstvennyy opticheskiy institut imeni S.I. Vavilova.
(Photographic emulsions)

L 9855-63

EWT(1)/FS(v)/BDS/EED(b)-2--AFFTC/APGC/ASD--IJP(C)

ACCESSION NR: AP3000591

S/0051/63/014/005/0721/0725

58

56

AUTHOR: Denisyuk, Yu. N.; Protas, I. R.

P

TITLE: Improvement of Lippman photographic plates for recording standing light waves

SOURCE: Optika i spektroskopiya, v. 14, no. 5, 1963, 721-725

TOPIC TAGS: photographic emulsions

ABSTRACT: The purpose of the work was to develop improved Lippman (Compt. rend. 112, 274, 1891) type photographic plates for recording light standing wave patterns. The main difference between the conventional emulsion technology and the Lippman process is omission of the physical ripening stage. The procedure used for making the test plates was based on the recipe of Ives, H. E. (Astrophys. J., 27, 325, 1908) but modified in the light of present day emulsion making techniques. Coating thicknesses from 4 to 40 microns were tested. Hypersensitization with gold, while effective, proved to be unreliable (poor reproducibility). Best results were obtained in hypersensitizing with

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ACCESSION NR: AP3000591

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triethanolamine; this yielded a threefold increase in speed. Physical ripening, even for short periods, impairs the characteristics of the plates. To record standing wave patterns clearly the size of the AgBr crystals should not exceed one fourth the separation between wave crests; best results are obtained when the crystal diameter is less than 0.1 the crest separation. "In conclusion the authors express their gratitude to P. Kh. Pruss for making available the equipment for gaging crystal size and Yu. A. Krakau for valuable advice." Orig. art. has: 2 figures and 1 table.

ASSOCIATION: none

SUBMITTED: 06Apr62 DATE ACQ: 12Jun63 ENCL: 00

SUB CODE: CH NR REF Sov: 003 OTHER: 006

Card

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PROTAS, I.E.; SIDORENKOVA, P.T.; RYZHOVA, T.Y.

Emulsion factors determining the resolving power of the light sensitive
emulsion layer. Usp.nauch.fot. 10:230-234 '64. (MIRA 17:10)

PROTAS, I.R.; IVANOVA, V.M.

Shape and size of silver bromide crystals formed at various pH of the dispersion medium. Usp.nauch.fot. 10:262-266 '64.

(MIRA 17:10)

Trotas, T. J.

PAGE 1 BOOK INFORMATION 507/1159

Academy nest sum. Knizsina po nauchnoi fotografii i kinematografii

Uprabni nauchnyi fotografii, tom 7. Periodika fotografticheskoy chislennosty.

Izdatel'stvo Akademii Nauk SSSR, 1960. 260 p. Krish. sliip. Izderted. 1,000 copies printed.

Editorial Board: K. V. Chubisov (Dept. Ed.), Corresponding Member, Academy of Sciences USSR; V. I. Shcherbinin (Dept. Res., M.) Candidate of Chemical Sciences, Doctor, Yu. M. Gorobets'kiy, Doctor of Technical Sciences, Professor; O. A. Isachenko, Doctor of Technical Sciences, Professor; T. I. Leshchenko, Candidate of Chemical Sciences; K. I. Or Publishing House: K. V. Kharlamova; Tech. Ed.: G. I. Shatina.

PURPOSE: This collection of articles is addressed to those working in chemical and applied photography and cinematography, and to researchers in the chemistry and physics of photographic processes.

CONTENTS: The collection contains articles from the editorial plan of the journal

"Nauchnyi fotograf" (Khnemogorsk) discussing problems in the preparation and processing of about silver light-sensitive layers. The entire

preparation and processing of photographic layers, the properties of photographic emulsions, the theory and technology of the preparation of photographic emulsions and optical sensitization, and, finally, the chemical photographic processing of black-and-white and color photographic materials. Many of the articles contain the results of scientific investigations made by the authors. The collection also

includes several reviews of current problems in the theory of chemical photographic processes. A bibliography of Soviet and non-Soviet references concludes each article.

Vorob'yev, E. I. Effect of Preparation and Processing Conditions of Photographic Layers on Deviation from the Law of Interbands 57

Kostomarov, Yu. N. Effect of Chemical Sensitization on the Sensitivity of Photographic Emulsions at Low Illumination Intensities 77

Tikhonov, V. N. Chemical Sensitization of Photographic Emulsions with Gold 87

Korshak, L. A. and S. G. Ogurcov. Investigation of Effect of Sodium Thiosulfate on the Properties of Photographic Emulsions 97

Gol'd 96

Boroditskaya, Ida. Change in the Dispersion of Small Grain Emulsions in the Chemical Aging Process 103

Kazakov, A. A., Yu. G. Chirkov, and V. M. Zaluzhnyi. Continuous Processes in the Synthesis of Photographic Emulsions 108

Sokolova, V. I. and Yu. B. Kuklin. The Effect of Gelatin Concentration in the First Bath 113

Lerch, S. M. Modern Concepts of Gelatin Structure 120

Sokolova, V. I. and S. I. Poretskii. Alkaline Free Absorbance in Photographic Gelatin 124

Terle, R. M. Modern Concepts of the Biologic Properties of Gelatin Solutions and Photographic Emulsions 137

Dvinskaya, V. M. and V. A. Mal'tsev. Search for Ways of Improving the Structural Mechanical Properties of Photographic Layers for Nuclear Research 150

Kolobova, M. F. Elementary Composition of Nuclear Photographic Emulsions 154

Lerch, S. M. Effect of Wetting Agents in Mixtures and During Processing 161

Kolobova, M. F. Elementary Composition of Nuclear Photographic Emulsions 170

Lerch, S. M. Elementary Composition of Nuclear Photographic Emulsions 176

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E073/E335

AUTHORS: Protas I.P. et al.

TITLE: Resolving power of photographic layers

PERIODICAL: Chemie a chemická technologie. Přehled technické a hospodářské literatury, v.19, no.10, 1962, 484, abstract Ch 62 6527 (Zh.nauč.prikl.Fotogr. Kinematogr., v.7, no. 2, 1962, 145 - 146)

TEXT: Comprehensive study of factors which influence the resolving power of the sensitive layer. The resolving power is influenced most by the optical properties of the layer - by the scattering of light of the silver-halide micro-crystals, which depends on their dimensions, shape and distribution.

[Abstracter's note: Complete translation.]

✓

Card 1/1

VOROB'YEVA, N.N.; KHARITONOV, N.N.; PROTAS, L.K.; SIMIN, Ya.Z.

Virological characteristics of the epidemic outbreak of polio-myelitis in Novosibirsk in 1957. Vop.virus. 4 no.3:296-300
My-Je '59. (MIRA 12:8)

1. Novosibirskaya virusologicheskaya laboratoriya.

(POLIOMYELITIS VIRUS,

strains isolated in 1957 epidemic in Russia
(Rus))

SALGANIK, R.I.; TOMSONS, V.P.; PROTAS, L.K.

Study of the effect of some polyanions on the multiplication of poliomyelitis virus in connection with phenomena of RNA denaturation. Vop. virus 8 no.2:155-159 Mr-Apr'63 (MIRA 16:12)

1. Laboratoriya nukleinovykh kislot i nukleoproteidov Instituta tsitologii i genetiki Sibirskogo otdeleniya AN SSSR.

SALGANIK, R.I.; TOMSONS, V.P.; PROTAS, L.K.

Studying the effect of ribonuclease and desoxyribonuclease on the
multiplication of the poliomyelitis virus in tissue culture.
Izv.Sib. etd. AN SSSR no.12:78-81 '61. (MIKA 15:3)

1. Institut tsitologii i genetiki Sibirskogo otdeleniya AN SSSR,
Novosibirsk.
(VIRUSES) (RIBONUCLEASE) (DESOXYRIBONUCLEASE)

Protas, L.P.

PROTAS, L.P.; CHOCHIA, K.N.

X-ray diagnosis and therapy in lymphosarcoma of the intestine. Vest. rent. i rad. 32 no.6:69-71 N-D '57. (MIRA 11:3)

1. Iz terapevticheskogo otdeleniya (zav.-prof. Yu.I.Arkusskiy [deceased] i radiokhirurgicheskogo otdeleniya (zav. K.N.Chochia) TSentral'nogo nauchno-issledovatel'skogo rentgeno-radiologicheskogo instituta Ministerstva zdravookhraneniya SSSR (dir.-prof. M.N. Pobedinskiy)

(INTESTINES, neoplasms in child
lymphosarcoma, x-ray diag. & ther. (Rus)
(LYMPHOSARCOMA, in inf. & child
intestine, x-ray diag. & ther. (Rus)
(RADIOTHERAPY, in various dis.
lymphosarcoma of intestine in child (Rus)

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PROTAS, L.R.

DECEASED
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SEE IIC

RADIATION BIOLOGY

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CIA-RDP86-00513R001343320005-0"

PROFAS, L.Ye.

No-fines concrete made with waste rock ingredients. Shakti-stroi.
no.6:27-28 Je '67. (MLRA 20:7)

1. Institut Karagandagiproshakht.
(Concrete blocks) (Concrete, Frost resistant)

PRCTAS, L.Ye., inzh.

Unit for manufacturing lightweight filler from local raw materials.
Biul. tekhn. inform. 4 no.1:11 Ja '58. (MIRA 11:2)
(Leningrad--Lightweight concrete)

FROTAS, Lev Yevseyevich, kand. tekhn. nauk; BERNKAN, A.S., red.

[Production of wet process ceramics] Proizvodstvo keramik zita s mokroi podgotovkoj syr'ya. Leningrad, 1964. 23 p.
(MIA 17:7)

PROTAS, L.Ye., kand.tekhn.nauk

Agloporite made from peat slags of the Leningrads Hydroelectric
Power Station No. 5. Sbor.trud.VNIINSM no.6:84-91 '62.

(MIRA 15:12)

1. Glavnoye stroitel'noy upravleniye pri ispolnitel'nom komitete
Leningradskogo gorodskogo soveta deputatov trudyashchikhsya.
(Slag) (Lightweight concrete)

PROTAS, L.Ye., kand. tekhn. nauk

Production of keramzit with a wet preparation of raw
materials. Stroi. mat. 9 no.10:30-34 0 '63. (MIRA 16:11)

PROTAS, L.Ye., inzh.

Universal separator for processing building materials. Biul. tekhn.
inform. 4 no. 6:19-21 Je '58. (MIRA 11:?)
(Building materials--Cleaning)

PROTAS, L. YE., CAND TECH SCI, "TECHNOLOGICAL PRINCIPLES
OF OBTAINING LIGHT, POROUS FILLERS FOR CONCRETE FROM CARBO-
NACEOUS, ARGILLACEOUS ROCKS BY THE METHOD OF AGGLOMERATION."
Moscow, 1960. (MIN OF HIGHER AND SEC SPEC ED RSFSR, Moscow
ORDER OF LABOR RED BANNER ENGINEERING-CONSTRUCTION INST IM
V. V. KUYBYSHEV). (KL, 3-61, 219).

SALISHCHEV, D.S.; FEDOTOV, V.P.; SIDORENKO, V.M., gornyy inzh.; PROTAS, N.T.,
gornyy inzhener; NIKITIN, I.P., gornyy inzhener

"Improve the work of underground sections" by IA.D.Grossman, E.M.
Kozakov. Reviewed by D.S.Salishchev and others. Gor.zhur. no.5:
8-13 My '61. (MIRA 14:6)

1. Glavnnyy inzhener Tashtagol'skogo zheleznogo rudnika (for
Salishchev). 2. Nachal'nik otdela truda i zarabotnoy platy
Tashtagol'skogo zheleznogo rudnika (for Fedotov). 3. Shakhta
"Bol'shevik," Krivoy Rog (for Sidorenko). 4. Shakhta "Novaya"
rudoupravleniya imeni K.Libknekhta (for Protas). 5. Krivorozhskiy
filial Instituta gornogo dela AN USSR.

(Mine engineering) (Mine management)
(Grossman, IA.D.) (Kozakov, E.M.)

PROTAS, N.V., inzh.

Mechanized feeding of lime water. Mekh. stroi. 20 no. 10:17 0 '63.
(MIRA 16:10)

PROTASENIYA, D.G.

Some geothermal characteristics of the deep parts of the Pripyat
graben. Dokl. AN BSSR 6 no.1:49-52 Ja '62. (MIRA 15:2)

1. Institut geologicheskikh nauk AN BSSR. Predstavлено академиком
AN BSSR G.V.Bogomolovym.
(Pripyat Valley--Earth temperature)

VOLKOV, A.I.; PROTASENYA, M.P.

Citrated mare's blood in the control of sterility. Veterinariia
41 no.6:93 Je '64. (MIRA 18:6)

1. Glavnnyy veterinarnyy vrach Mogilevskogo proizvodstvennogo
upravleniya (for Volkov). 2. Zaveduyushchiy veterinarnoy
laboratoriyye Mogilevskogo proizvodstvennogo upravleniya (for
Protasenya).

PROTASENYA, Tit Petrovich; VENKOVA, G.I.[Vienkova, H.I.], red.;
YEROSHENKO, T.G.[IEroshenko, T.H.], tekhn. red.

[Pathological physiology and the pathological anatomy of
animals; a textbook of practical studies] Patologichna fizio-
logia i patologichna anatomiia tvaryn; posibnyk do prak-
tychnykh zaniat'. Kyiv, Derzh.vyd-vo sil's'kohospodars'koi
lit-ry URSR, 1962. 167 p. (MIRA 15:11)
(Veterinary pathology)

PROTASENYA, T.P., prof.; NIKOLAYEV, B.N., assistant

Pathogenesis of leukemia in cattle. Veterinariia 41 no.4:32-33
Ap '64.

(MIRA 17:8)

1. Donskoy sel'skokhozyaystvennyy institut.

PROTASEN'YA, T. P.

Pathologic physiology and pathology-----

4. ispr.

Moskva----

Sel'khoziz, 1950. 375 p. (Uchebniki i uchebnye posobiiia dlia sel'skikh nauchno-tekhnicheskikh tekhnikumov)

ZAVARZINA, N.V.; PROTSESENKO, A.Ye.

On the lysis of Chlorella pyrenoidosa Pringh.cultures. Dokl.AN SSSR
122 no.5:936-939 O '58. (MIRA 11:11)

1. Institut mikrobiologii AN SSSR. Predstavлено академиком V.N.
Shaposhnikovymn.
(Algae) (Autolysis)

PROTASENKO, N.T.

Create conditions for improving operations of signaling, central control, and block system devices. Avtom., telem. i sviaz' 2 no.6:
40 Je '58. (MIRA 11:6)

1. Nachal'nik otdela sluzhby signalizatsii i svyazi Yuzhnay dorogi.
(Railroads--Signaling--Block system)

KORZENKO, V.N.; SAYKOVSKAYA, V.A.; PROTASENYA, S.G.; KOLIYEV, M.F.
(Severo-Osetinskaya ASSR); FEDYUSHKIN, M.Ye.; FEYTENGEYMER,
V.A., kand. veter. nauk; YAMASHEV, S.G., kand. veter. nauk;
AKHMETZYANOV, F.Kh., mladshiy nauchnyy sotrudnik; SHVETSOV,
K.A., veterinarnyy vrach; GANIYEV, M.K., prof.; FARZALIYEV,
I.A., dotsent

Smallpox in cattle. Veterinariia 41 no.7:31-34 Jl '64.
(MIRA 18:11)

1. Beloruskiy institut epidemiologii i gigiyeny (for Korzenko, Saykovskaya, Protasenya).
2. Direktor Severo-Osetinskoy respublikanskoy veterinarnoy laboratorii (for Fedyushkin).
3. Kazanskiy veterinarnyy institut (for Feytengeymer, Yamashov, Akhmetzyanov, Shvetsov).
4. Azerbaydzhanskiy nauchno-issledovatel'skiy veterinarnyy institut (for Ganiyev, Farzaliyev).

PROTAJENKA T. P. (& MARAYEV, P. V.)

Patologicheskaya fiziologiya i patologicheskaya anatomiya (Pathological Physiology and Pathological Anatomy). 4th revised and enlarged edition. Moscow, Sel'khozgiz, 1950, 576 pages, with illustrations.

Textbook for agricultural technical schools.

U-4258

~~PROTASENYA, Tit Petrovich, doktor veterinarnykh nauk, professor; MARAYEV, P.V., dotsent [deceased]; YEFIMOV, A.V., redaktor; BALLOD, A.I., tekhnicheskiy redaktor~~

[Pathological physiology and pathological anatomy] Patologiceskaisa fiziologija i patologicheskaja anatomiia. Izd. 5-oe. ispr. i perer. Moskva, Gos. izd-vo selkhoz. lit-ry, 1956. 384 p. (MLRA 10:1)
(Veterinary pathology)

Protasenya T.P.

A new method of study of digestion of carbohydrates, proteins, and fats in fistulated animals. T. P. Protasenya (Zooot. Inst. Novocherkassk). Fiziol. Zhur. S.S.R. 42, 430-3 (1956).—The method depends on prepn. of sticks of starch, egg protein matter, or lard (details of their prepn. are given), which are then introduced into the fistula. The method is rather convenient and fairly accurate. It was shown that digestion of carbohydrates in the duodenum of a horse is somewhat less active than in the cecum; proteins and fats are digested equally well in both, and the digestion of proteins in the duodenum is weaker by a factor of 3.6 than the digestion of carbohydrates; in the cecum the factor is 6. G. M. Kosolapoff

PROTASEVICH, A.I., aspirant

Benign tumors of the palate. Stomatologija 42 no.4:48-51
(MIRA 17:4)
Jl-Ag'63

1. Iz kafedry khirurgicheskoy stomatologii (zav. - prof. A.A. K'yandskiy) i kafedry patologicheskoy anatomii (zav. - prof. M.A. Zakhar'yevskaya) I Leningradskogo meditsinskogo instituta imeni akademika I.P.Pavlova.

IVANOV, Nikolay Rodionovich, kandidat biologicheskikh nauk; LEONT'YEV, V.M.,
kandidat sel'skokhozyaystvennykh nauk, redaktor; PROKOPEN'YEV, D.S.,
redaktor; VODOLAGINA, S.D., tekhnicheskij redaktor

[Beans of the genus Phaseolus] Fasol'. Pod obshchei red. V.M.Leont'yeva.
Moskva, Gos. izd-vo selkhoz. lit-ry. 1955. 278 p. (MIRA 9:8)
(Beans)

TARASOVA, Anastasiya Aleksandrovna; PROTASEVICH, D.S., redaktor; CHUNAYEVA,
Z.V., tekhnicheskiy redaktor

[Peat compost] Torfianye komposty. Moskva, Gos. izd-vo selkhoz.
lit-ry, 1956. 87 p. (MLRA 9:11)
(Peat) (Compost)

TRUTNEV, Aleksey Grigor'yevich; PROTASEVICH, D.S., redaktor; VODOLAGINA,
S.D., tekhnicheskij redaktor

[Use of fertilizers on new and reclaimed non-chernozem lands]
Primenenie udobrenii na tselinykh i zaleznykh zemliakh necherno-
zemnoi polosy. Moskva, Gos. izd-vo selkhoz. lit-ry, 1956. 166 p.
(MLRA 9:8)

(Fertilizers and manures)

SUVOROV, Vladimir Vasil'yevich, professor, redaktor; VOROB'YEV, F.I.,
redaktor; ~~BOGDANOVICH~~, D.S., redaktor; VODOLAGINA, S.D., tekhnicheskiy redaktor

[Experience in growing corn in Leningrad Province] Opyt vyrashchivaniya
kukuruzы v Leningradskoi oblasti. Moskva, Gos. izd-vo selkhoz. lit-ry.
(MIRA 10:1)
1956. 181 p.
(Leningrad Province--Corn (Maize))

PROTASEVICH, D.S.

SINSKAYA, Yevgeniya Nikolayevna, doktor biologicheskikh i sel'skokhozyaystvennykh nauk; PROTASEVICH, D.S., redaktor; CHUMAYEVA, Z.V., tekhnicheskiy redaktor; MOLODTSOVA, N.G., tekhnicheskiy redaktor.

[Annual forage crops in the southern U.S.S.R.] Odnoletnie kormovye kul'tury iuga SSSR. Moskva, Gos.izd-vo sel'khoz.lit-ry, 1957. 284 p.
(MLRA 10:4)

(Forage plants)

PROTASEVICH, D.S.

MOKIN, Nikita Nikitich, prof.; PROTASEVICH, D.S., red.; CHUNAYEVA, Z.V.,
tekhn.red.

[Tillage and plant breeding] Zamledenie i rastenievodstvo. Moskva,
Gos.izd-vo sel'khoz.lit-ry, 1957. 368 p.
(Field crops) (Tillage) (MIRA 11:3)

TRUTNEV, Aleksey Grigor'yevich.; PROTASEVICH, D.S., red., NILOV, S.N., red.;
VODOLAGINA, S.D., tekhn. red.

[Virgin and idle lands of the northern part of the non-Chernozem
zone of the U.S.S.R. and their reclamation] TSelinnye i zalezhye
zemli severnoi chasti nechernozemnoi polosy SSSR i ikh osvovnie.
Moskva, Gos. izd-vo sel'khoz. lit-ry, 1958. 343 p. (MIRA 11:10)
(Russia, Northern--Reclamation of land)

PROTASEVICH, L. A.

ZAYTS, V.K., kandidat sel'skokhozyaystvennykh nauk; VEN'YAMINOV, A.N.; YENIKHYZEV, Kh. K.; RYABOV, I.N.; KOSTINA, K.P.; FINAYEV, Ye. P.; SYUBAROVA, N.P.; VASIL'YEV, K.V.; PROTASEVICH, L.A.; CHERKAVENKO, A.S.; UL'YANISHCHEV, M.M.; ORATOVSKIY, M.T.; DOKA, S.Kh.; SINITSYNA, N.S., redaktor; SOKOLOVA, N.N., tekhnicheskij redaktor

[Breeding stone fruits; collection of articles] Seleksiia kostochkovykh kul'tur; sbornik statei. Moskva, Gos. izd-vo sel'khoz. lit-ry, 1956. 278 p. (MLRA 10:4)

l. Moscow, Nauchno-issledovatel'skiy institut sadovodstva imeni I.V. Michurina.
(Fruit culture)

SHUSHKEVICH, S.S.; PROTASEVICH, M.Z.

Transfer of data from an AI-100 analyzer onto a recorder.
Prib. i tekh. eksp. 9 no.2:170-171 Mr-Ap'64. (MIRA 17:5)

1. Belorusskiy gosudarstvennyy universitet.

PROTASEVICH, N., inzh.

Ways of increasing the motor capacity of internal combustion engines and the service of marine engines. Rech. transp. 22 (MIRA 16:12)
no.10:26-28 0 '63.

PROTASEVICH, N.I.

Dynamics of some pathophysiological indices in vascular psychoses.
Fiziol. zhur. [Ukr.] 10 no.4:549-550 Jl-Ag '64. (MIRA 18:11)
1. Ukrainskiy psikhonevrologicheskiy institut.

"APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R001343320005-0

OLOFINSKIY, N.F.; RYVKIN, P.M.; BALABANOV, Ye.M.; PROTASEVICH, N.S.
Electrostatic separator. Patent U.S.S.R. 77,957, Dec. 31, 1949.
(CA 47 no.19:9830 '53)

APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R001343320005-0"

cont.
PROTASEVICH, R. T.: Master Biol Sci (diss) -- "The anatomical-morphological characteristics of some meadow grasses (*Polygonis arundinacea* and *Beckmannia eruciformis*) resistant to flooding". Minsk, 1958. 20 pp (Acad Sci Belorus SSR, Inst of Biology), 150 copies (KL, No 4, 1959, 124)

PROTASEVICH, R.T.

Characteristics of the anatomic structure of some species
of the genus Calamagrostis Adans. Bot.; issi. Bel. otd. VBO
(MIRA 17;5)
no.5:102-113 '63.

KOZLOVSKAYA, N.V.; PROTASEVICH, R.T.

Bear is onion Allium ursinum L. in White Russia. Biul.
(MIRÁ 15:3)
Inst. biol. AN BSSR no. 6:103-104 '61.
(WHITE RUSSIA--ALLIUM)

PROTASEVICH, R.T. [Pratasevich, R.T.]

Characteristics of the anatomic structure of fescue species
found in White Russia. Vestsi AN BSSR. Ser. biol. nav.
no.2:40-47 '65. (MIRA 18:12)

11567
S/057/62/032/010/005/010
B104/B102

74.671✓
AUTHORS:

TITLE:
PERIODICAL: Mustafin, K. S., and Protasevich, V. I.
Determination of the plasma parameters in an Ne-Hg mixture

TEXT: To supplement a previous paper (Yu. M. Kagan, K. S. Mustafin, ZhTF, XXX, 938, 1960) the parameters of the positive column in neon with Hg added, with a probe and the strength of 20 mm diameter are compared with experimental data. by a compensation method at Ne pressures of 0.5-1 mm Hg at discharge amperages of 0.5-1 mm Hg and Hg pressures of 1-25 ma. Assuming

$$\left. \begin{array}{l} x < 1 \quad s = s_0 x^{\frac{n}{n-1}} \\ x > 1 \quad s = s_0 \end{array} \right\} p_1 = 11.5 \frac{\text{cm}^2}{\text{cm}^3 \cdot \text{mm pr. cr.}}$$

(2) for Ne and

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B104/B102

Determination of the plasma ...

$$\begin{aligned} x < 0.29 \quad s_{n.y.}^{Hg} &= 0, \\ 0.29 < x < 1 \quad s_{n.y.}^{Hg} &= s_{0.n.y.}^{Hg} \cdot x^{\eta_h}, \\ x > 1 \quad s_{n.y.}^{Hg} &= s_{0.n.y.}^{Hg}; \frac{n s_{0.n.y.}^{Hg}}{P} = 34 \frac{cm^2}{cm^3 \cdot mm \text{ pr. cr.}} \end{aligned}$$

(4) for Hg, and proceeding from the kinetic equation

$$\begin{aligned} -\frac{4}{3} \gamma^2 \frac{d}{dx} \left(x \lambda^* \frac{d \varphi_0}{dx} \right) &= 2 \frac{m}{M} u_0^2 \frac{d}{dx} \left(\frac{x^2}{\lambda^*} \varphi_0 \right) - \frac{x \mu_0^2}{\lambda_{n.y.}} \varphi_0, \\ \lambda^* &= \frac{1}{ns^2} \\ \text{at } \varphi_0(x) &= x^{\eta_h} \left[C_1 I_{\eta_h} \left(\frac{4}{5} \sqrt{\beta_2} x^{\eta_h} \right) + C_2 K_{\eta_h} \left(\frac{4}{5} \sqrt{\beta_2} x^{\eta_h} \right) \right] \end{aligned}$$

(10) for the range $0.29 < x < 1$ and

$$\varphi_0 = C_3 x^{-1/2} \sqrt{\beta_1(x-1) + \beta_2^{-1/4} K_{1/3} \left\{ \frac{2}{3 \beta_1} [\beta_1(x-1) + \beta_2^{-1/4}]^{3/2} \right\}} \quad (15) \text{ for}$$

the range $x > 1$. Symbols in the equations: $x = v^2/u_0$; $u_0 = 2eU_0/m$, $U_0 = 16.5 \text{ ev}$
is the first Ne level; $\gamma = eE/w$, λ^* is the diffusion length $\lambda_{H.y.}$ is the mean free path with respect to inelastic collisions, s and $s_{H.y.}$ are the

Card 2/4

Determination of the plasma ...

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cross sections of elastic and inelastic electron scattering from Ne and Hg atoms, s^* is the effective momentum transfer cross section. The mean electron energy $\bar{x} = \int_0^\infty xF(x)dx / \int_0^\infty F(x)dx$ where $F(x) dx = a[\bar{x}]_0(x)dx$ holds for the energy distribution function $F(x)$, is obtained for medium and low pressures, subject the condition $a \leq 50$ or $p_1/E \leq 3.6$, with the aid of the approximations

$$\int_0^{0.20} xF(x)dx = \frac{C}{a}(1 - e^{-1.8 \cdot 10^{-3}a}) + 0.048 A, \quad (21)$$

(22)

$$\int_{0.20}^1 xF(x)dx = \frac{0.396}{\sqrt{\beta_2}} \left(1 + \frac{3.52}{\sqrt{\beta_2}}\right) e^{0.63\sqrt{\beta_2}}, \quad (23)$$

$$\int_0^{0.20} F(x)dx = \frac{2}{3} C (0.156 - 7 \cdot 10^{-3}a) e^{-1.8 \cdot 10^{-3}a} + 0.26 A, \quad (24).$$

$$\int_{0.20}^1 F(x)dx = \frac{1.36}{\sqrt{\beta_2}} \left(1 - \frac{1.175}{\sqrt{\beta_2}}\right) e^{0.63\sqrt{\beta_2}}.$$

Card 3/4

Y

Determination of the plasma ...

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Here $B = 1.86 \cdot e^{0.63\sqrt{\beta_1}} \cdot e^{1.8 \cdot 10^{-\alpha}}$,

$$A = 1.86 \cdot e^{0.63\sqrt{\beta_1}} (0.062\alpha - 0.68 - 0.29\sqrt{\beta_2}),$$

$$C = B - 2.94 \cdot A \cdot e^{1.8 \cdot 10^{-\alpha}},$$

electron drift velocity is.

$$a = -\frac{1}{3} \sqrt{\frac{2e}{mU_0}} E \frac{\int_{-\infty}^0 \lambda \cdot x \frac{dy_0}{dx} dx}{\int_0^\infty F(x) dx} \quad (25)$$

in the range $0 \leq x \leq 1$. The comparison shows satisfactory

results. It is concluded that consideration of the Coulomb interaction occurring between the electrons and of elastic collisions between electrons and atoms will give better results. There are 5 figures and 2 tables.

ASSOCIATION: Tadzhikskiy gosudarstvennyy universitet im. V. I. Lenina
(Tadzhik State University imeni V. I. Lenin)

SUBMITTED: November 21, 1961

Card 4/4

GUBSKIY, Ivan Maksimovich [Hubs'kyi, I.M.]; PROTASEVICH, V.M.
[Protasevych, V.M., translator]; VAYSMAN, G.A.
[Vaisman, H.A.], red.

[Pharmacy in the Ukrainian S.S.R.] Aptechna sprava v
URSR. Kyiv, Zdorov'ia, 1964. 137 p. (MIRA 18:2)

KARAKULINA, T.T.; PROTASEVICH, Ye.S.

Effect of oxygen therapy on the functional state of the higher nervous centers. Trudy LSGMI 40:66-71 '58. (MIRA 12:8)

1. Fakul'tetskaya terapevticheskaya klinika Leningradskogo sanitarno-gigiyenicheskogo meditsinskogo instituta (zav. klinikoy - prof.A.A.Kedrov) i Kafedra normal'noy fiziologii Leningradskogo sanitarno-gigiyenicheskogo meditsinskogo instituta (zav.kafedroy - prof.Yu.M.Uflyand).

(CENTRAL NERVOUS SYSTEM, physiology,
higher nervous activity, eff. of oxygen
ther. of hypertension (Rus))

(OXYGEN, ther. use,
hypertension, eff. on higher nerv. activity
(Rus))

(HYPERTENSION, ther.
oxygen, eff. on higher nerv. activity (Rus))

PROTASEVICH-NOVOSELOVA, Ye.S.

Chlorotherapy for dysentery. Trudy Kish.gos.med.inst. 13:109-
113 '60. (MIRA 16:2)

1. Kafedra infektsionnykh bolezney i kafedra fiziologii Kishi-
nevskogo gosudarstvennogo meditsinskogo instituta.
(DYSENTERY) (CHLORINE—THERAPEUTIC USE)

PROTASEVICH-NOVOSELOVA, Ye.S.

Treatment of dysentery with small doses of active chlorine.
Voen.med.zhur. no.3:37-42 Mr '57. (MIRA 11:3)
(DYSENTERY, BACILLARY, therapy,
chlorine, microdoses (Rus)
(CHLORINE, therapeutic use,
dysentery, bacillary, microdoses (Rus)

USSR / Soil Science. Mineral Fertilizers.

J-4

Abstr Jour: Ref Zhur-Biol., No 8, 1958, 34428.

Author : Kedrov-Zikhman, O. K., Rozenberg, L. Ye., Pratashchik, I. N.

Inst : AS LatvSSR.

Title : Effect of Cobalt and Molybdenum on Yield of Agricultural Plants on Turf-Podzolic and Peat-Soils of Belorussia.

Orig Pub: V sb.: mikroelementy v s. kh. i meditsine, Riga, AN LatvSSR, 1956, 51-65.

Abstract: Based on vegetation and field experiments of many years, conducted in Belorussia by the Institutes of Agriculture and Melioration of Water Regimen and Swamp Economy the placement into the soil of Co (1.5-6 g per vessel or 1-2 kg/ha), as well as an additional top-dressing and pre-sowing

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USSR / Soil Science. Mineral Fertilizers.

J-4

abs Jour: Ref Zhur-Biol., No 8, 1958, 34428.

Abstract: cultivation of seeds in 0.1% solutions of Co compounds, considerably increased the yields of clover, sugar beets, flax and rye on peat-swampy and turf-podzolic limed soils, as compared with unlimed soils. The quality of the harvest was also raised at the same time. A larger increase in yield of clover was obtained with Mo (1.5-6 g per vessel or 3 kg/ha) on peat-swamp and sod-podzolic non-limed soils, than on limed. The content of water-soluble Mo in the soil - under the influence of liming - is considerably increased.
-- A. P. Shchorbakov.

Card 2/2

PROTASHCHIK, V.A.

YEROBYEV, B.V.; PROTASHCHIK, V.A.

Thermal decomposition kinetics of magnesium carbonate and surface area of the solid product (MgO). Part 1: Thermal decomposition kinetics of $MgCO_3 \cdot 3H_2O$ and $MgCO_3 \cdot 4H_2O$. Sbor.nauch.rab.Inst.khim. AN BSSR no.5:58-74 '56. (MIRA 10:5)

(Magnesium carbonates)
(Chemical reaction, Rate of)

YEROFEEV, B.V.; PROTASHCHIK, V.A.

Thermal decomposition kinetics of magnesium carbonate and surface area of the solid product (MgO). Part 2: Investigation of surface area of magnesium oxide in decomposition products of $MgCO_3 \cdot 3H_2O$ and $MgCO_3 \cdot 4H_2O$ by adsorption of $C^{14}O_2$. Sbor.nauch.rab.Inst.khim. AN BSSR no.5:75-91 '56. (MLRA 10:5)

(Magnesium carbonates)
(Chemical reaction, Rate of)
(Carbon--Isotopes)

PROTASHCHIK, V. A.

"Determination of the Surface of Magnesium Oxide Formed During the Thermal Decomposition of a Carbonate from the Chemisorption of Radioactive Carbon Dioxide C^{14}O_2 ."

PROTASHCHIK, V.A.

Experimental determination of the magnesium oxide surface formed during thermal decomposition of carbonate using the chemical sorption of C^{14}O_2 . Probl. kin. i kat. 9:315-320 '57. (MIRA 11:3)
(Carbon dioxide) (Adsorption) (Magnesium oxide)

PROTASHCHIK, V.A.

5(3)

PHASE I BOOK EXPLOITATION

SOV/1285

Akademiya nauk Belorusskoy SSR. Institut khimii

Sbornik nauchnykh rabot, vyp. 6 (Collection of Scientific Works of the Institute of Chemistry, Belorussian SSR Academy of Sciences, N. 6) Minsk, Izd-vo AN Belorusskoy SSR, 1958. 271 p. 1,100 copies printed.

Ed.: Yerofeyev, B.V., Academician, BSSR Academy of Sciences; Tech. Ed.: Volokhanovich, I.

PURPOSE: The book is intended for chemists engaged in research in specialized fields.

COVERAGE: The book is a collection of scientific articles dealing with varied subjects, such as problems in electron theory of semiconductors, catalysis, autoxidation of abietic acid, thermodynamics of some reactions of sulfur organic compounds and reactions of alkyl, aryl, acyl-oxy radicals in the liquid phase. Personalities are mentioned in the individual articles. There are 331 references, of which 215 are Soviet, 75 English, 30 German, 10 French, and 1 Finnish.

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Collection of Scientific Works (Cont.)

SOV/1285

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of Norway Spruce

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3-20-59

YEROFEYEV, B.V.; PROTASHCHIK, V.A.

Use of Co60 in the study of contact conditions between metallic cobalt and its formate. Shor. nauch. rab. Inst. khim. AN BSSR no.6:39-46 '58. (MIRA 11:11)
(Cobalt-Isotapes) (Cobalt formate)

PROTASHCHIK, V.A.

Determining the surface size of different components in a mixture of solid substances from chemical absorption by C^{14}O_2 .
Dokl. AN BSSR 3 no.9:372-374 S '59. (MIRA 13:2)

1. Predstavлено академиком АН БССР В.В.Ярофеевым.
(Surface chemistry) (Absorption)

PROTASHECHIK, V. A.

PROKOPEN, B. Z., PROLINSKI, T. L.

Report No. 60
"The effect of the Co. Abdication on the Formal Decommunization of Czechoslovakia."

Paper presented at the "Symposium on the Czechoslovak Transition"
Prague, Czechoslovakia, 21-27 October 1989, sponsored by the IRI

PROTASHCHIK, V.A [Pratashchik, V.A.]

Using the chemical sorption of C^{14}O_2 for studying the surface of
solid substances. Vestsi AN BSSR. Ser.fiz.-tekhn. no.1:62-69 '60.
(MIRA 13:6)

(Carbon--Isotopes) (Surface chemistry)

YEROFEYEV, B.V.; PROTASHCHIK, V.A.

New relationship in topokinetic reactions. Dokl. AN BSSR 8
no. 1:39-40 Ja '64. (MIRA 17:5)

1. Institut fiziko-organicheskoy khimii AN BSSR.

YEROFSEYEV, B.V., akade.ik; PROTASHCHIK, V.A.

Compensation relation between n and K in topokinetic reactions.
Dokl. AN SSSR 155 no. 3:647-650 Mr '64. (MIRA 17:5)

1. Institut fiziko-organicheskoy khimii AN BSSR. 2. AN BSSR
(for Yerofseyev).

PROTASHCHIK, V.A.; YEROFEYEV, B.V.

Determination of the surface of products of the thermal
decomposition of KMnO₄ by chemisorption of C¹⁴O₂. Dokl.
AN BSSR 7 no.5:326-329 My '63. (MIRA 16:12)

1. Institut fiziko-organicheskoy khimii AN BSSR.

S/844/62/000/000/122/129
D207/D307

AUTHORS: Yerofeyev, B. V. and Protashchik, V. A.

TITLE: Effect of Co^{60} on the rate of decomposition of cobalt formate

SOURCE: Trudy II Vsesoyuznogo soveshchaniya po radiatsionnoy khimi. Ed. by Yu. S. Polak. Moscow, Izd-vo "Nauka" SSSR, 1962, 703-708

TEXT: The effect of introduction of Co^{60} into cobalt formate on the rate of its thermal decomposition was investigated manometrically in (initially) $\sim 10^{-5}$ mm Hg vacuum. Tests were carried out after storage periods ranging from 9 to 44 days and the decomposition test took from 85 to 250 min. At the end of a decomposition test the pressure in the system rose to 0.6 - 0.7 mm Hg. Three samples were used: (1) free of Co^{60} ; (2) containing 1.42 mc of Co^{60}/g ; (3) containing 1.71 mc of Co^{60}/g . The decomposition

and 1/3

Effect of Co^{60} ...

S/844/62/000/000/122/129
D207/D307

curves of the three samples were all S-shaped. The times taken to reach the maximum decomposition velocity (the points of inflexion on the S-curves) practically coincided with the times necessary to decompose half the sample ($\tau_{1/2}$). The times $\tau_{1/2}$ for the samples containing Co^{60} were considerably shorter than for sample 1. The value of $\tau_{1/2}$ for sample 1 increased a little with the duration of storage before tests while $\tau_{1/2}$ for the samples with Co^{60} increased considerably after long storage. Differences in the maximum velocities of the composition between the three samples were considerably smaller than the differences between the values of $\tau_{1/2}$. The following topokinetic equation described the decomposition process:

$$\alpha = 1 - \exp(-kt^n), \quad (1)$$

where α is the decomposed proportion of the sample, t is the time, and n and k are constants (n varied from sample to sample). The

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Effect of Co^{60} ...

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above equation was obeyed for values of α from 0.07 to 0.95. This equation is discussed in terms of the composition mechanism which occurs via electron transfer from formate ions to electron traps such as anion vacancies. There are 4 figures.

ASSOCIATION: Institut fiziko-organicheskoy khimii AN BSSR (Institute for Physico-Organic Chemistry, AS BSSR)

Card 3/3

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↑
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